

### **Listing of Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims **1-25** (canceled).

**26.** (Currently Amended) A method of providing a custom orthodontic appliance for treatment of a patient, the method comprising:

maintaining a database, accessible by a computer, and containing data related to each of a plurality of orthodontic practitioners;  
storing in the database, information identifying the practitioners and information relating to treatment plan options ~~preferred by~~ associated with the respective practitioners;  
receiving information from an orthodontic practitioner of the plurality for providing a custom orthodontic appliance for a patient;  
in response to the information from the orthodontic practitioner, determining parameters for the configuration of a custom orthodontic appliance for the patient based at least in part on the stored options ~~preferred by~~ associated with the orthodontic practitioner; and  
providing to the orthodontic practitioner an orthodontic appliance design for the patient having a configuration that includes the determined parameters.

**27.** (original) The method of claim **26** further comprising:

receiving information from the orthodontic practitioner of a treatment plan option for treatment of the patient; and  
determining at least one of the parameters based at least in part on the information of the treatment plan option received from the orthodontic practitioner.

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**28.** (original) The method of claim **26** further comprising:  
receiving information from the orthodontic practitioner of a treatment plan option for treatment of the patient; and  
determining parameters addressed by the information of the treatment plan option received from the orthodontic practitioner in accordance with that information and determining parameters not so addressed in accordance with information stored in the database.

Claims **30-44** (canceled).

**45.** (new) The method of claim **26** further comprising:  
providing to the orthodontic practitioner the orthodontic appliance manufactured in accordance with the orthodontic appliance design.

**46.** (new) A method of providing a custom orthodontic appliance for treatment of a patient, the method comprising:

in response to information from an orthodontic practitioner, providing an orthodontic appliance for an individual patient having a configuration that includes appliance parameters based at least in part on predetermined treatment plan options associated with the practitioner that have been retrieved from a previously created and maintained database containing data associating a plurality of orthodontic practitioners with treatment plan options respectively preferred by each orthodontic practitioner.